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1823, 1843, 1862, and 1881. Those who are interested in this line of work will sincerely hope that later writers may be able to add the year 1901 to this list. R. G. AITKEN.

ASTRONOMICAL TELEGRAMS.

(Translations.)

CAMBRIDGE, MASS., Dec. 8, 1900.

To W. W. CAMPBELL: (Received 3:05 P.M.)

DOUGLAS, of the Lowell Observatory, telegraphed last night that a projection was seen on the north edge of *Icarium Mare*\* that lasted seventy minutes. (Signed) E. C. PICKERING.

BOSTON, MASS., Dec. 24, 1900.

To Lick Observatory: (Received 9:20 A.M.)

A comet was discovered by M. GIACOBINI at Nice, on December 20.313, G. M. T., in R. A.  $22^h 32^m$ , and Decl.  $- 22^\circ 0'$  (approximate position). Its daily motion is  $+ 1^\circ 30'$  in R. A., and  $- 8'$  in Decl. (Signed) JOHN RITCHIE, JR.

LICK OBSERVATORY, Mt. Hamilton, Cal.,

To Harvard College Observatory, Dec. 24, 1900.

Cambridge, Mass., (Sent 8:20 P.M.)

To Students' Observatory, Berkeley, Cal.:

Comet Giacobini was observed by R. G. AITKEN on December 24.6022, G. M. T., in R. A.  $22^h 59^m 10^s.2$ ; Decl.  $- 22^\circ 44' 41''$  (Signed) W. W. CAMPBELL.

CAMBRIDGE, MASS., Dec. 25, 1900.

To Lick Observatory.: (Received 8:30 A.M., Dec. 26.)

Kiel cables that Comet  $\epsilon$  (GIACOBINI) was observed at Nice on Dec. 24.271, G. M. T., in R. A.  $22^h 57^m$ ; Decl.  $- 22^\circ 45'$ . Approximate position. (Signed) EDWARD C. PICKERING.

LICK OBSERVATORY, Mt. Hamilton, Cal.,

To Harvard College Observatory, Dec. 27, 1900.

Cambridge, Mass., (Sent 1:57 P.M.)

To Student's Observatory, Berkeley Cal.:

Comet Giacobini was observed by R. G. AITKEN on December 26.6280 in R. A.  $23^h 11^m 23^s.6$ ; Decl.  $- 22^\circ 57' 59''$ . (Signed) W. W. CAMPBELL.

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\* *Icarium Mare* is in Martian Longitude  $320^\circ - 345^\circ$  and Martian Latitude  $+ 30^\circ \pm$ .

LICK OBSERVATORY, Mt. Hamilton, Cal.,  
 To Harvard Observatory, Dec 28, 1900.  
 Cambridge, Mass., (Sent 10:55 P.M.)  
 To Student's Observatory, Berkeley, Cal.:

Comet Giacobini was observed by R. G. AITKEN on Decem-  
 28.6198 in R. A.  $23^h 23^m 18^s.5$ ; Decl.  $- 23^\circ 7' 27''$ .

(Signed) W. W. CAMPBELL.

LICK OBSERVATORY, Mt. Hamilton, Cal.,  
 To Harvard College Observatory, Dec. 31, 1900.  
 Cambridge, Mass.: (Sent 4:15 P.M.)

From the Lick Observatory observations of December 24, 26,  
 and 28, elements and ephemeris [here omitted] of Comet *c* 1900  
 (GIACOBINI) were computed by R. G. AITKEN as follows:—

$$\begin{array}{lcl} T = \text{December } 1.41 \text{ G. M. T.} \\ \omega = 175^\circ 54' \\ \Omega = 192 \quad 39 \\ i = 31 \quad 1 \end{array} \left. \vphantom{\begin{array}{l} \omega \\ \Omega \\ i \end{array}} \right\} 1900.0$$

$$\text{natural } q = 0.9769$$

(Signed) W. W. CAMPBELL.

[The Lick Observatory positions of Comet *c* for the dates December 24th and 28th, as printed in *Science Observer, Special Circular, No. 128*, are slightly in error owing to a mistranslation in each telegram of the cipher-word giving the seconds and tenths of seconds of R. A., the seconds of N. P. D., and the fourth decimal of the date. Both messages were sent correctly from the Lick Observatory, and were transmitted correctly by the Western Union Telegraph Company in San José. The correct translations are printed above.]